SEQUENCE LISTING

(1) GENERAL INFORMATION:

    (i) APPLICANT: Cohen, Philip
                 Alessi, Dario
                 Cross, Darren

    (ii) TITLE OF INVENTION: CONTROL OF PROTEIN SYNTHESIS, AND
           SCREENING METHOD FOR AGENTS

    (iii) NUMBER OF SEQUENCES: 58

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    (v) COMPUTER READABLE FORM:
        (A) MEDIUM TYPE: Floppy disk
        (B) COMPUTER: IBM PC compatible
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        (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

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(2) INFORMATION FOR SEQ ID NO: 1:

(i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 11 amino acids
    (B) TYPE: amino acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

Gly Arg Pro Arg Thr Ser Ser Phe Ala Glu Gly
1   5   10

(2) INFORMATION FOR SEQ ID NO: 2:

(i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 7 amino acids
    (B) TYPE: amino acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

Arg Pro Arg Ala Ala Thr Cys

1   5

(2) INFORMATION FOR SEQ ID NO: 3:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 12 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: peptide

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

Phe Pro Gln Phe Ser Tyr Ser Ala Ser Ser Thr Ala
1   5   10

(2) INFORMATION FOR SEQ ID NO: 4:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 7 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: peptide

    (ix) FEATURE:
        (A) NAME/KEY: Peptide
        (B) LOCATION:2
        (D) OTHER INFORMATION:/product= "OTHER"
                             /label= Xaa
                             /note= "CAN BE ANY AMINO ACID"

    (ix) FEATURE:
        (A) NAME/KEY: Peptide
        (B) LOCATION:group(4, 5)
        (D) OTHER INFORMATION:/product= "OTHER"
                             /label= Xaa
                             /note= "CAN BE ANY AMINO ACID,
                                     INCLUDING SMALL AMINO
                                     ACIDS, OTHER THAN GLYCINE"

    (ix) FEATURE:

            (A) NAME/KEY: Peptide
            (B) LOCATION:7
            (D) OTHER INFORMATION:/product= "OTHER"
                                   /label= Xaa
                                   /note= "Xaa IS A LARGE
                                        HYDROPHOBIC RESIDUE SUCH
                                        AS LEU OR PHE"

       (ix) FEATURE:
            (A) NAME/KEY: Peptide
            (B) LOCATION:6
            (D) OTHER INFORMATION:/product= "OTHER"
                                   /label= Xaa
                                   /note= "Xaa MAY BE SERINE OR
                                        THREONINE"

       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

Arg Xaa Arg Xaa Xaa Xaa Xaa
1   5

(2) INFORMATION FOR SEQ ID NO: 5:

       (i) SEQUENCE CHARACTERISTICS:
            (A) LENGTH: 7 amino acids
            (B) TYPE: amino acid
            (C) STRANDEDNESS: single
            (D) TOPOLOGY: linear

      (ii) MOLECULE TYPE: peptide

      (ix) FEATURE:
            (A) NAME/KEY: Peptide
            (B) LOCATION:group(2, 4, 5)
            (D) OTHER INFORMATION:/product= "OTHER"
                                   /label= Xaa
                                   /note= "Xaa IS ANY AMINO ACID"

      (ix) FEATURE:
            (A) NAME/KEY: Peptide
            (B) LOCATION:7
            (D) OTHER INFORMATION:/product= "OTHER"
                                   /label= Xaa
                                   /note= "Xaa IS A LARGE
                                        HYDROPHOBIC RESIDUE"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

Arg Xaa Arg Xaa Xaa Ser Xaa
1   5

(2) INFORMATION FOR SEQ ID NO: 6:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 7 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: peptide

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

Arg Pro Arg Ala Ala Thr Phe
1   5

(2) INFORMATION FOR SEQ ID NO: 7:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 7 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: peptide

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

Arg Ser Arg Lys Glu Ser Tyr
1   5

(2) INFORMATION FOR SEQ ID NO: 8:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 7 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:
    (A) NAME/KEY: Peptide
    (B) LOCATION:group(2, 4, 5)
    (D) OTHER INFORMATION:/product= "OTHER"
                             /label= Xaa
                             /note= "Xaa CAN BE ANY AMINO
                                    ACID"

(ix) FEATURE:
    (A) NAME/KEY: Peptide
    (B) LOCATION:7
    (D) OTHER INFORMATION:/product= "OTHER"
                             /label= Xaa
                             /note= "Xaa IS A LARGE
                                    HYDROPHOBIC RESIDUE"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

Arg Xaa Arg Xaa Xaa Ser Xaa
1   5

(2) INFORMATION FOR SEQ ID NO: 9:

(i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 7 amino acids
    (B) TYPE: amino acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

Arg Pro Arg Thr Ser Ser Phe
1   5

(2) INFORMATION FOR SEQ ID NO: 10:

(i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 7 amino acids
    (B) TYPE: amino acid
    (C) STRANDEDNESS: single

                    (D) TOPOLOGY: linear

          (ii) MOLECULE TYPE: peptide

          (ix) FEATURE:
                    (A) NAME/KEY: Peptide
                    (B) LOCATION:group(4, 5)
                    (D) OTHER INFORMATION:/product= "OTHER"
                                          /label= Xaa
                                          /note= "Xaa IS ANY SMALL AMINO
                                              ACID EXCEPT GLYCINE"

          (ix) FEATURE:
                    (A) NAME/KEY: Peptide
                    (B) LOCATION:7
                    (D) OTHER INFORMATION:/product= "OTHER"
                                          /label= Xaa
                                          /note= "Xaa IS ANY LARGE
                                              HYDROPHOBIC RESIDUE"

          (ix) FEATURE:
                    (A) NAME/KEY: Peptide
                    (B) LOCATION:2
                    (D) OTHER INFORMATION:/product= "OTHER"
                                          /label= Xaa
                                          /note= "Xaa IS ANY AMINO ACID"

          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

Arg Xaa Arg Xaa Xaa Ser Xaa
1   5

(2) INFORMATION FOR SEQ ID NO: 11:

          (i) SEQUENCE CHARACTERISTICS:
                    (A) LENGTH: 6 amino acids
                    (B) TYPE: amino acid
                    (C) STRANDEDNESS: single
                    (D) TOPOLOGY: linear

          (ii) MOLECULE TYPE: peptide

          (ix) FEATURE:
                    (A) NAME/KEY: Peptide
                    (B) LOCATION:group(2, 3)
                    (D) OTHER INFORMATION:/product= "OTHER"

```
                                    /label= Xaa
                                    /note= "Xaa CAN BE ANY AMINO
                                        ACID"

     (ix) FEATURE:
          (A) NAME/KEY: Peptide
          (B) LOCATION:group(4, 6)
          (D) OTHER INFORMATION:/product= "OTHER"
                                    /label= Xaa
                                    /note= "Xaa IS PHE OR TYR"

     (ix) FEATURE:
          (A) NAME/KEY: Peptide
          (B) LOCATION:5
          (D) OTHER INFORMATION:/product= "OTHER"
                                    /label= Xaa
                                    /note= "Xaa IS SER OR THR"


     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

Phe Xaa Xaa Xaa Xaa Xaa
1                   5

(2) INFORMATION FOR SEQ ID NO: 12:

     (i) SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 7 amino acids
          (B) TYPE: amino acid
          (C) STRANDEDNESS: single
          (D) TOPOLOGY: linear

     (ii) MOLECULE TYPE: peptide



     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

His Phe Pro Gln Phe Ser Tyr
1                   5

(2) INFORMATION FOR SEQ ID NO: 13:

     (i) SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 7 amino acids
          (B) TYPE: amino acid
          (C) STRANDEDNESS: single
```

              (D) TOPOLOGY: linear

        (ii) MOLECULE TYPE: peptide

        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

 Arg Pro Arg Ala Ala Ser Phe
 1   5

 (2) INFORMATION FOR SEQ ID NO: 14:

        (i) SEQUENCE CHARACTERISTICS:
              (A) LENGTH: 7 amino acids
              (B) TYPE: amino acid
              (C) STRANDEDNESS: single
              (D) TOPOLOGY: linear

        (ii) MOLECULE TYPE: peptide

        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

 Arg Pro Arg Thr Ser Ser Phe
 1   5

 (2) INFORMATION FOR SEQ ID NO: 15:

        (i) SEQUENCE CHARACTERISTICS:
              (A) LENGTH: 7 amino acids
              (B) TYPE: amino acid
              (C) STRANDEDNESS: single
              (D) TOPOLOGY: linear

        (ii) MOLECULE TYPE: peptide

        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

 Arg Pro Arg Gly Gly Ser Phe
 1   5

 (2) INFORMATION FOR SEQ ID NO: 16:

(i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 7 amino acids
    (B) TYPE: amino acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:

```
Arg Pro Arg Ala Gly Ser Phe
1               5
```

(2) INFORMATION FOR SEQ ID NO: 17:

(i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 7 amino acids
    (B) TYPE: amino acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:

```
Arg Pro Arg Gly Ala Ser Phe
1               5
```

(2) INFORMATION FOR SEQ ID NO: 18:

(i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 10 amino acids
    (B) TYPE: amino acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:

```
Lys Lys Lys Asn Arg Thr Leu Ser Val Ala
1               5                   10
```

(2) INFORMATION FOR SEQ ID NO: 19:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 10 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

   (ii) MOLECULE TYPE: peptide

   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:

Lys Lys Arg Asn Arg Thr Leu Ser Val Ala
1   5   10

(2) INFORMATION FOR SEQ ID NO: 20:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 9 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

   (ii) MOLECULE TYPE: peptide

   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:

Lys Lys Arg Asn Arg Thr Leu Thr Val
1   5

(2) INFORMATION FOR SEQ ID NO: 21:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 7 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

   (ii) MOLECULE TYPE: peptide

   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:

Arg Pro Arg Ala Ala Thr Phe
1   5

(2) INFORMATION FOR SEQ ID NO: 22:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 9 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: peptide

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:

Gly Arg Ala Arg Thr Ser Ser Phe Ala
1   5

(2) INFORMATION FOR SEQ ID NO: 23:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 10 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: peptide

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23:

Lys Lys Arg Asn Lys Thr Leu Ser Val Ala
1   5   10

(2) INFORMATION FOR SEQ ID NO: 24:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 10 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: peptide

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24:

Lys Lys Arg Asn Arg Thr Leu Ser Val Ala
1   5   10

(2) INFORMATION FOR SEQ ID NO: 25:

     (i) SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 6 amino acids
          (B) TYPE: amino acid
          (C) STRANDEDNESS: single
          (D) TOPOLOGY: linear

     (ii) MOLECULE TYPE: peptide

     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25:

Glu Phe Met Pro Met Glu
1   5

(2) INFORMATION FOR SEQ ID NO: 26:

     (i) SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 10 amino acids
          (B) TYPE: amino acid
          (C) STRANDEDNESS: single
          (D) TOPOLOGY: linear

     (ii) MOLECULE TYPE: peptide

     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 26:

Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu
1   5   10

(2) INFORMATION FOR SEQ ID NO: 27:

     (i) SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 55 base pairs
          (B) TYPE: nucleic acid
          (C) STRANDEDNESS: single
          (D) TOPOLOGY: linear

     (ii) MOLECULE TYPE: cDNA

     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 27:

GCGGAGATCT GCCACCATGG AGTTCATGCC CATGGAGTCA GGGCGGCCCA GAACC 55

(2) INFORMATION FOR SEQ ID NO: 28:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 27 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: cDNA

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 28:

GCGGTCCGGA ACATAGTCCA GCACCAG   27

(2) INFORMATION FOR SEQ ID NO: 29:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 15 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: peptide

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 29:

Arg Pro His Phe Pro Gln Phe Ser Tyr Ser Ala Ser Gly Thr Ala
1   5   10   15

(2) INFORMATION FOR SEQ ID NO: 30:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 16 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: peptide

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 30:

Met Thr Ser Ala Leu Ala Thr Met Arg Val Asp Tyr Glu Gln Ile Lys
1   5   10   15

(2) INFORMATION FOR SEQ ID NO: 31:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 13 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

   (ii) MOLECULE TYPE: peptide

   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 31:

Arg Pro Arg His Phe Pro Gln Phe Ser Tyr Ser Ala Ser
1   5   10

(2) INFORMATION FOR SEQ ID NO: 32:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 9 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

   (ii) MOLECULE TYPE: peptide

   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 32:

Tyr Pro Tyr Asp Val Pro Asp Tyr Ala
1   5

(2) INFORMATION FOR SEQ ID NO: 33:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 20 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

   (ii) MOLECULE TYPE: peptide

   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 33:

Thr Thr Tyr Ala Asp Phe Ile Ala Ser Gly Arg Thr Gly Arg Arg Asn
1   5   10   15

Ala Ile His Asp
            20

(2) INFORMATION FOR SEQ ID NO: 34:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 8 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: peptide

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 34:

Arg Pro Arg Thr Ser Ser Phe Ala
1   5

(2) INFORMATION FOR SEQ ID NO: 35:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 8 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: peptide

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 35:

Gly Arg Pro Arg Thr Ser Ser Phe
1   5

(2) INFORMATION FOR SEQ ID NO: 36:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 7 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: peptide

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 36:

```
Arg Pro Arg Thr Ser Thr Phe
1               5
```

(2) INFORMATION FOR SEQ ID NO: 37:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 7 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: peptide

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 37:

```
Arg Pro Arg Thr Ser Ala Phe
1               5
```

(2) INFORMATION FOR SEQ ID NO: 38:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 6 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: peptide

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 38:

```
Pro Arg Thr Ser Ser Phe
1               5
```

(2) INFORMATION FOR SEQ ID NO: 39:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 6 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: peptide

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 39:

```
Arg Pro Arg Thr Ser Ser
1               5
```

(2) INFORMATION FOR SEQ ID NO: 40:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 7 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: peptide

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 40:

```
Lys Pro Arg Thr Ser Ser Phe
1               5
```

(2) INFORMATION FOR SEQ ID NO: 41:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 7 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: peptide

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 41:

```
Arg Pro Lys Thr Ser Ser Phe
1               5
```

(2) INFORMATION FOR SEQ ID NO: 42:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 7 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: peptide

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 42:

```
Arg Pro Arg Thr Ser Ser Leu
1               5
```

(2) INFORMATION FOR SEQ ID NO: 43:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 7 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: peptide

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 43:

```
Arg Pro Arg Thr Ser Ser Val
1               5
```

(2) INFORMATION FOR SEQ ID NO: 44:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 7 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: peptide

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 44:

```
Arg Pro Arg Thr Ser Ser Ala
1               5
```

(2) INFORMATION FOR SEQ ID NO: 45:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 7 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: peptide

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 45:

```
Arg Pro Arg Thr Ser Ser Lys
1               5
```

(2) INFORMATION FOR SEQ ID NO: 46:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 7 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: peptide

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 46:

```
Arg Pro Arg Thr Ser Ser Glu
1               5
```

(2) INFORMATION FOR SEQ ID NO: 47:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 8 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: peptide

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 47:

```
Arg Pro Arg Thr Ser Ser Pro Ala
1               5
```

(2) INFORMATION FOR SEQ ID NO: 48:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 7 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: peptide

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 48:

Arg Pro Arg Ala Ser Ser Phe
1   5

(2) INFORMATION FOR SEQ ID NO: 49:

   (i) SEQUENCE CHARACTERISTICS:
      (A) LENGTH: 7 amino acids
      (B) TYPE: amino acid
      (C) STRANDEDNESS: single
      (D) TOPOLOGY: linear

  (ii) MOLECULE TYPE: peptide

  (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 49:

Arg Pro Arg Val Ser Ser Phe
1   5

(2) INFORMATION FOR SEQ ID NO: 50:

   (i) SEQUENCE CHARACTERISTICS:
      (A) LENGTH: 7 amino acids
      (B) TYPE: amino acid
      (C) STRANDEDNESS: single
      (D) TOPOLOGY: linear

  (ii) MOLECULE TYPE: peptide

  (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 50:

Arg Pro Arg Gly Ser Ser Phe
1   5

(2) INFORMATION FOR SEQ ID NO: 51:

   (i) SEQUENCE CHARACTERISTICS:
      (A) LENGTH: 7 amino acids
      (B) TYPE: amino acid
      (C) STRANDEDNESS: single
      (D) TOPOLOGY: linear

  (ii) MOLECULE TYPE: peptide

  (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 51:

Arg Pro Arg Asn Ser Ser Phe
1   5

(2) INFORMATION FOR SEQ ID NO: 52:

        (i) SEQUENCE CHARACTERISTICS:
            (A) LENGTH: 7 amino acids
            (B) TYPE: amino acid
            (C) STRANDEDNESS: single
            (D) TOPOLOGY: linear

        (ii) MOLECULE TYPE: peptide

        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 52:

Arg Pro Arg Thr Ala Ser Phe
1   5

(2) INFORMATION FOR SEQ ID NO: 53:

        (i) SEQUENCE CHARACTERISTICS:
            (A) LENGTH: 7 amino acids
            (B) TYPE: amino acid
            (C) STRANDEDNESS: single
            (D) TOPOLOGY: linear

        (ii) MOLECULE TYPE: peptide

        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 53:

Arg Pro Arg Thr Gly Ser Phe
1   5

(2) INFORMATION FOR SEQ ID NO: 54:

        (i) SEQUENCE CHARACTERISTICS:
            (A) LENGTH: 7 amino acids
            (B) TYPE: amino acid
            (C) STRANDEDNESS: single
            (D) TOPOLOGY: linear

        (ii) MOLECULE TYPE: peptide

        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 54:

```
Arg Pro Arg Thr Val Ser Phe
1               5
```

(2) INFORMATION FOR SEQ ID NO: 55:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 7 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: peptide

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 55:

```
Arg Pro Arg Thr Asn Ser Phe
1               5
```

(2) INFORMATION FOR SEQ ID NO: 56:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 7 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: peptide

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 56:

```
Arg Pro Arg Ala Ala Thr Phe
1               5
```

(2) INFORMATION FOR SEQ ID NO: 57:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 10 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: peptide

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 57:

Lys Lys Leu Asn Arg Thr Leu Ser Val Ala
1   5   10

(2) INFORMATION FOR SEQ ID NO: 58:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 7 amino acids
        (B) TYPE: amino acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: peptide

    (ix) FEATURE:
        (A) NAME/KEY: Peptide
        (B) LOCATION:group (2, 4, 5)
        (D) OTHER INFORMATION:/product= "OTHER"
                        /label= Xaa
                        /note= "CAN BE ANY AMINO ACID"

    (ix) FEATURE:
        (A) NAME/KEY: Peptide
        (B) LOCATION:7
        (D) OTHER INFORMATION:/product= "OTHER"
                        /label= Xaa
                        /note= "Xaa IS A LARGE
                              HYDROPHOBIC RESIDUE"

    (ix) FEATURE:
        (A) NAME/KEY: Peptide
        (B) LOCATION:6
        (D) OTHER INFORMATION:/product= "OTHER"
                        /label= Xaa
                        /note= "Xaa MAY BE SERINE OR
                              THREONINE"

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 58:

Arg Xaa Arg Xaa Xaa Xaa Xaa
1   5